

2031

B.A./B.Sc. (General) First Semester

Zoology

Paper - II: Biodiversity and Cell Biology – II (ZOO-102)

Time allowed: 3 Hours

Max. Marks: 36

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. Illustrate your answer with suitable diagrams.

x-x-x

I. Define/Give brief explanation of the following :-

- a) Parenchyma
- b) Euchromatin
- c) Malignant tumour
- d) Chromatin
- e) Oncosphere
- f) Metameric segmentation
- g) Hexacanth
- h) Typhlosole

(8x1)

UNIT – I

II. Explain the life-cycle of TAENIA.

(7)

III. a) Write a short note on miracidium larva.

b) Describe the sense organs present in ASCARIS.

(4,3)

UNIT – II

IV. Describe the reproductive systems of earthworm.

(7)

V. a) Make a well labelled sketch of T.S. of nerve cord of earthworm.

b) Classify upto order with ecological note of the following:-

i) Tubifex

ii) Nereis

(3,4)

UNIT – III

VI. Describe the structure and functions of lysosome.

(7)

P.T.O.

(2)

- VII. a) Differentiate between Prokaryotic and Eukaryotic Ribosomes.
b) Discuss the functions of Centrosome. (4,3)

UNIT – IV

- VIII. Describe the structure and functions of nucleus. (7)
- IX. a) Explain the different types of cancer.
b) Differentiate between cell mediated and humoral immunity. (4,3)

x-x-x